

Listing of claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1-26. (Cancelled)
- 27 (Cancelled)
- 28 (Cancelled)
- ¹ ~~29~~ (Currently amended) An isolated ~~The~~ nucleic acid molecule of ~~claim 28,~~ comprising a polynucleotide encoding amino acids 25 to 417 of SEQ ID NO:4.
- ² ~~30~~ (Previously presented) The nucleic acid molecule of claim ¹ ~~29~~, comprising nucleotides 73 to 1251 of SEQ ID NO:3.
- 31 (Cancelled)
- 32 (Cancelled)
- ³ ~~33~~ (Currently amended) The nucleic acid molecule of claim ¹ ~~29~~ ³², comprising a polynucleotide encoding amino acids 1 to 417 of SEQ ID NO:4.
- ⁴ ~~34~~ (Previously presented) The nucleic acid molecule of claim 33, comprising nucleotides 1 to 1251 of SEQ ID NO:3.
- ⁵ ~~35~~ (Currently amended) The nucleic acid molecule of claim ¹ ~~29~~ ³², further comprising a heterologous polynucleotide.
- ⁶ ~~36~~ (Previously presented) The nucleic acid molecule of claim ⁵ ~~35~~, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- ⁷ ~~37~~ (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim ¹ ~~29~~ ³² into a vector.
- ⁸ ~~38~~ (Currently amended) A vector comprising the nucleic acid molecule of claim ¹ ~~29~~ ³².
- ⁹ ~~39~~ (Previously presented) The vector of claim ⁸ ~~38~~, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

~~10~~ ~~40~~ (Currently amended) A host cell comprising the nucleic acid molecule of claim ~~29~~¹~~27~~.

~~11~~ ~~41~~ (Previously presented) The host cell of claim ~~40~~¹⁰, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

~~12~~ ~~42~~ (Previously presented) A method of producing a polypeptide which comprises culturing the host cell of claim ~~41~~¹¹ under conditions such that the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.

43 (Cancelled)

44 (Cancelled)

~~13~~ ~~45~~ (Currently amended) An isolated ~~The~~ nucleic acid molecule of ~~claim 44~~, comprising a polynucleotide encoding the mature amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 97757.

46 (Cancelled)

47 (Cancelled)

~~14~~ ~~48~~ (Currently amended) The nucleic acid molecule of claim ~~45~~¹³, comprising a polynucleotide encoding the complete amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 97757.

~~15~~ ~~49~~ (Currently amended) The nucleic acid molecule of claim ~~45~~¹³~~43~~, further comprising a heterologous polynucleotide.

~~16~~ ~~50~~ (Previously presented) The nucleic acid molecule of claim ~~49~~¹⁵, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

~~17~~ ~~51~~ (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim ~~45~~¹³~~43~~ into a vector.

~~18~~ ~~52~~ (Currently amended) A vector comprising the nucleic acid molecule of claim ~~42~~¹³~~43~~.

- 19 ~~53~~ (Previously presented) The vector of claim ~~52~~¹⁸, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 20 ~~54~~ (Currently amended) A host cell comprising the nucleic acid molecule of claim ~~4543~~¹³.
- 21 ~~55~~ (Previously presented) The host cell of claim ~~54~~²⁰, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 22 ~~56~~ (Previously presented) A method of producing a polypeptide which comprises culturing the host cell of claim ~~55~~²¹ under conditions such that the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.
- 57-121. (Cancelled)
- 23 ~~122~~ (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 1 to 22 in SEQ ID NO:2.
- 24 ~~123~~ (Previously presented) The nucleic acid molecule of claim ~~122~~²³, further comprising a heterologous polynucleotide.
- 25 ~~124~~ (Previously presented) The nucleic acid molecule of claim ~~123~~²⁴, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 26 ~~125~~ (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim ~~122~~²³ into a vector.
- 27 ~~126~~ (Previously presented) A vector comprising the nucleic acid molecule of claim ~~122~~²³.
- 28 ~~127~~ (Previously presented) The vector of claim ~~126~~²⁷, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 29 ~~128~~ (Previously presented) A host cell comprising the nucleic acid molecule of claim ~~122~~²³.
- 30 ~~129~~ (Previously presented) The host cell of claim ~~128~~²⁹, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

- 31 ~~130~~. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim ~~129~~³⁰ under conditions such that ~~said the~~ polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.
- 32 ~~131~~. (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 33 to 56 in SEQ ID NO:2.
- 33 ~~132~~. (Previously presented) The nucleic acid molecule of claim ~~131~~³², further comprising a heterologous polynucleotide.
- 34 ~~133~~. (Previously presented) The nucleic acid molecule of claim ~~132~~³³, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 35 ~~134~~. (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim ~~131~~³² into a vector.
- 36 ~~135~~. (Previously presented) A vector comprising the nucleic acid molecule of claim ~~131~~³².
- 37 ~~136~~. (Previously presented) The vector of claim ~~135~~³⁶, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 38 ~~137~~. (Previously presented) A host cell comprising the nucleic acid molecule of claim ~~131~~³².
- 39 ~~138~~. (Previously presented) The host cell of claim ~~137~~³⁸ wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 40 ~~139~~. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim ~~138~~³⁹ under conditions such that ~~said the~~ polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.
- 41 ~~140~~. (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 59 to 82 in SEQ ID NO:2.
- 42 ~~141~~. (Previously presented) The nucleic acid molecule of claim ~~140~~⁴¹, further comprising a heterologous polynucleotide.

- ⁴³
~~142~~. (Previously presented) The nucleic acid molecule of claim ⁴²~~141~~, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- ⁴⁴
~~143~~. (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim ⁴¹~~140~~ into a vector.
- ⁴⁵
~~144~~. (Previously presented) A vector comprising the nucleic acid molecule of claim ⁴¹~~140~~.
- ⁴⁶
~~145~~. (Previously presented) The vector of claim ⁴⁵~~144~~, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- ⁴⁷
~~146~~. (Previously presented) A host cell comprising the nucleic acid molecule of claim ⁴¹~~140~~.
- ⁴⁸
~~147~~. (Previously presented) The host cell of claim ⁴⁷~~146~~, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- ⁴⁹
~~148~~. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim ⁴⁸~~147~~ under conditions such that ~~said the~~ polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.
- ⁵⁰
~~149~~. (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 95 to 112 in SEQ ID NO:2.
- ⁵¹
~~150~~. (Previously presented) The nucleic acid molecule of claim ⁵⁰~~149~~, further comprising a heterologous polynucleotide.
- ⁵²
~~151~~. (Previously presented) The nucleic acid molecule of claim ⁵¹~~150~~, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- ⁵³
~~152~~. (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim ⁵²~~151~~ into a vector.
- ⁵⁴
~~153~~. (Previously presented) A vector comprising the nucleic acid molecule of claim ⁵⁰~~149~~.
- ⁵⁵
~~154~~. (Previously presented) The vector of claim ⁵⁴~~153~~, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

- 56 ~~155~~. (Previously presented) A host cell comprising the nucleic acid molecule of claim ~~149~~⁵⁰.
- 57 ~~156~~. (Previously presented) The host cell of claim ~~155~~⁵⁶, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 58 ~~157~~. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim ~~156~~⁵⁷ under conditions such that ~~said the~~ polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.
- 59 ~~158~~. (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 179 to 190 in SEQ ID NO:2.
- 60 ~~159~~. (Previously presented) The nucleic acid molecule of claim ~~158~~⁵⁹, further comprising a heterologous polynucleotide.
- 61 ~~160~~. (Previously presented) The nucleic acid molecule of claim ~~159~~⁶⁰, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 62 ~~161~~. (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim ~~158~~⁵⁹ into a vector.
- 63 ~~162~~. (Previously presented) A vector comprising the nucleic acid molecule of claim ~~158~~⁵⁹.
- 64 ~~163~~. (Previously presented) The vector of claim ~~162~~⁶³, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 65 ~~164~~. (Previously presented) A host cell comprising the nucleic acid molecule of claim ~~158~~⁵⁹.
- 66 ~~165~~. (Previously presented) The host cell of claim ~~164~~⁶⁵, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 67 ~~166~~. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim ~~165~~⁶⁶ under conditions such that ~~said the~~

polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.

- 68 167. (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 196 to 205 in SEQ ID NO:2.
- 69 168. (Previously presented) The nucleic acid molecule of claim 167, further comprising a heterologous polynucleotide.
- 70 169. (Previously presented) The nucleic acid molecule of claim 168, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 71 170. (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 167 into a vector.
- 72 171. (Previously presented) A vector comprising the nucleic acid molecule of claim 167.
- 73 172. (Previously presented) The vector of claim 171, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 74 173. (Previously presented) A host cell comprising the nucleic acid molecule of claim 167.
- 75 174. (Previously presented) The host cell of claim 173, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 76 175. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 174 under conditions such that ~~said the~~ polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.
176. (Cancelled)
- 77 177. (Currently amended) An isolated ~~The~~ nucleic acid molecule of ~~claim 176 comprising a polynucleotide~~ encoding amino acids 25 to 201 of SEQ ID NO:4.
- 78 178. (Previously presented) The nucleic acid molecule of claim 177 comprising nucleotides 73 to 603 of SEQ ID NO:3.

79 179. (Currently amended) The nucleic acid molecule of claim ~~177~~⁷⁷176, further comprising a heterologous polynucleotide.

80 180. (Previously presented) The nucleic acid molecule of claim ~~179~~⁷⁹, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

81 181. (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim ~~177~~⁷⁷176 into a vector.

82 182. (Currently amended) A vector comprising the nucleic acid molecule of claim ~~177~~⁷⁷176.

83 183. (Previously presented) The vector of claim ~~182~~⁸², wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

84 184. (Currently amended) A host cell comprising the nucleic acid molecule of claim ~~177~~⁷⁷176.

85 185. (Previously presented) The host cell of claim ~~184~~⁸⁴, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

86 186. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim ~~185~~⁸⁵ under conditions such that ~~said the~~ polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.

187. (Cancelled)

87 188. (Currently amended) An isolated ~~The~~ nucleic acid molecule comprising a polynucleotide of claim ~~187~~ encoding amino acids 202 to 224 of SEQ ID NO:4.

88 189. (Previously presented) The nucleic acid molecule of claim ~~188~~⁸⁷ comprising nucleotides 604 to 672 of SEQ ID NO:3.

89 190. (Currently amended) The nucleic acid molecule of claim ~~188~~⁸⁷187, further comprising a heterologous polynucleotide.

90 191. (Previously presented) The nucleic acid molecule of claim ~~190~~⁸⁹, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

- 91 192. (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim ~~188~~⁸²187 into a vector.
- 92 193. (Currently amended) A vector comprising the nucleic acid molecule of claim ~~188~~⁸²187.
- 93 194. (Previously presented) The vector of claim ~~193~~⁹², wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 94 195. (Currently amended) A host cell comprising the nucleic acid molecule of claim ~~188~~⁸²187.
- 95 196. (Previously presented) The host cell of claim ~~195~~⁹⁴, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 96 197. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim ~~196~~⁹⁵ under conditions such that ~~said the~~ polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.
198. (Cancelled)
- 97 199. (Currently amended) An isolated ~~The~~ nucleic acid molecule comprising a polynucleotide of claim 198 encoding amino acids 225 to 417 of SEQ ID NO:4.
- 98 200. (Previously presented) The nucleic acid molecule of claim ~~199~~⁹⁷ comprising nucleotides 673 to 1251 of SEQ ID NO:3.
- 99 201. (Currently amended) The nucleic acid molecule of claim ~~199~~⁹⁷198, further comprising a heterologous polynucleotide.
- 100 202. (Previously presented) The nucleic acid molecule of claim ~~201~~⁹⁹, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 101 203. (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim ~~199~~⁹⁷198 into a vector.
- 102 204. (Currently amended) A vector comprising the nucleic acid molecule of claim ~~199~~⁹⁷198.

- 103 ~~205~~. (Previously presented) The vector of claim ~~204~~¹⁰², wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 104 ~~206~~. (Currently amended) A host cell comprising the nucleic acid molecule of claim ~~199~~¹⁰²198.
- 105 ~~207~~. (Previously presented) The host cell of claim ~~206~~¹⁰⁴, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 106 ~~208~~. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim ~~207~~¹⁰⁵ under conditions such that ~~said the~~ polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.
209. (Cancelled)
- 107 ~~210~~. (Currently amended) An isolated ~~The~~ nucleic acid molecule comprising a polynucleotide of claim 209 encoding amino acids 342 to 408 of SEQ ID NO:4.
- 108 ~~211~~. (Previously presented) The nucleic acid molecule of claim ~~210~~¹⁰⁷ comprising nucleotides 1024 to 1224 of SEQ ID NO:3.
- 109 ~~212~~. (Currently amended) The nucleic acid molecule of claim ~~210~~¹⁰⁷209, further comprising a heterologous polynucleotide.
- 110 ~~213~~. (Previously presented) The nucleic acid molecule of claim ~~212~~¹⁰⁹, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 111 ~~214~~. (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim ~~210~~¹⁰⁷209 into a vector.
- 112 ~~215~~. (Currently amended) A vector comprising the nucleic acid molecule of claim ~~210~~¹⁰⁷209.
- 113 ~~216~~. (Previously presented) The vector of claim ~~215~~¹¹², wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 114 ~~217~~. (Currently amended) A host cell comprising the nucleic acid molecule of claim ~~210~~¹⁰⁷209.

¹¹⁴
115 ~~218~~. (Previously presented) The host cell of claim ~~217~~, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

116 ~~219~~. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim ¹¹⁵~~218~~ under conditions such that ~~said the~~ polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.

a¹
--The present application is a continuation of U.S. Application No. 08/815,469, filed
patent No. 6,153,402,
March 11, 1997, which is herein incorporated by reference; said 08/815,469 claims priority to
U.S. Provisional Application No. 60/013,285, filed March 12, 1996, U.S. Provisional Application
No. 60/028,711, filed October 17, 1996, and U.S. Provisional Application No. 60/037,341, filed
February 6, 1997, each of which is herein incorporated by reference.--

At page 5, line 1, please delete "in a bacterial host".

On page 7, line 26, delete "shares" and substitute therefor --share--.

On page 8, lines 3-4, please delete "12301 Park Lawn Drive, Rockville, Maryland 20852"
and insert therefor --10801 University Blvd., Manassas, VA 20110-2209, USA--.

a²
On page 8, lines 8-9, please delete "12301 Park Lawn Drive, Rockville, Maryland 20852"
and insert therefor --10801 University Blvd., Manassas, VA 20110-2209, USA--.

a³
On page 10, line 18, after "species" please delete "on" and substitute therefor --of--.

On page 13, line 27, please delete "hybridiz" and substitute therefor --hybridization with
a⁴
chromosomes, and for detecting expression of the--.

On page 14, line 13, please delete "DR3" and substitute therefor --DR3-V1--;

On page 14, line 15, please delete "DR3" and substitute therefor --DR3-V1--;

On page 14, line 17, please delete "DR3" and substitute therefor --DR3-V1--;

On page 14, line 17, please delete "214" and substitute therefor --236--; and

On page 14, line 18, please delete "DR3" and substitute therefor --DR3-V1--.

On page 15, line 24, please delete "(150mM NaCl, 15mM trisodium citrate)" and insert
--(750mM NaCl, 75mM trisodium citrate)--.

On page 15, line 25, please delete "20 g/ml" and insert therefor --20 µg/ml--.

On page 23, line 19, please delete "the is" and substitute therefor --is then--.

On page 33, line 5, after "such" and before "the", please insert --as--.

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✓